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Date of Signature and Deposit: May 14, 2004


Zhibin Ren 47,897

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants:	Edward R. Chapman	Date:	May 14, 2004
Serial No.	10/695,577	Group Art Unit:	1645
Filed:	10/28/2003	Examiner:	---
Title:	BOTULINUM NEUROTOXIN B RECEPTORS AND USE THEREOF	File:	960296.99004

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Enclosed is a completed Information Disclosure Statement by Applicant listing documents that the applicant in the above-identified application wishes to bring to the attention of the Examiner for consideration in connection with the examination on the merits of this application.

No fee is believed due in connection with this submission. However, if a fee is due, please charge the fee to Deposit Account No. 17-0055.

Respectfully submitted,


Zhibin Ren
Reg. No. 47,897
Attorney for Applicants
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Milwaukee, WI 53202
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PTO/SB/17 (10-03)

Approved for use through 07/31/2006. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ 0.00)

Complete if Known

Application Number	10/695,577
Filing Date	10/28/2003
First Named Inventor	Edwin R. Chapman
Examiner Name	--
Art Unit	--
Attorney Docket No.	960296.99004

METHOD OF PAYMENT (check all that apply)

Check Credit card Money Order Other None

Deposit Account:

Deposit Account Number 17-0055
Deposit Account Name Quarles & Brady LLP

The Director is authorized to: (check all that apply)

Charge fee(s) indicated below Credit any overpayments
 Charge any additional fee(s) or any underpayment of fee(s)
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FEE CALCULATION

1. BASIC FILING FEE

Large Entity	Small Entity	Fee Code (\$)	Fee Code (\$)	Fee Description	Fee Paid
1001 770	2001 385			Utility filing fee	
1002 340	2002 170			Design filing fee	
1003 530	2003 265			Plant filing fee	
1004 770	2004 385			Reissue filing fee	
1005 160	2005 80			Provisional filing fee	
SUBTOTAL (1)		(\$ 0.00)			

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims	Independent Claims	Multiple Dependent	Extra Claims	Fee from below	Fee Paid
			-20**=	X =	0.00
			-3***=	X =	0.00

Large Entity	Small Entity	Fee Code (\$)	Fee Code (\$)	Fee Description
1202 18	2202 9			Claims in excess of 20
1201 86	2201 43			Independent claims in excess of 3
1203 290	2203 145			Multiple dependent claim, if not paid
1204 86	2204 43			** Reissue independent claims over original patent
1205 18	2205 9			** Reissue claims in excess of 20 and over original patent
SUBTOTAL (2)		(\$ 0.00)		

**or number previously paid, if greater. For Reissues, see above

3. ADDITIONAL FEES

Large Entity Small Entity

Fee Code (\$)	Fee Code (\$)	Fee Description	Fee Paid
1051 130	2051 65	Surcharge - late filing fee or oath	
1052 50	2052 25	Surcharge - late provisional filing fee or cover sheet	
1053 130	1053 130	Non-English specification	
1812 2,520	1812 2,520	For filing a request for ex parte reexamination	
1804 920*	1804 920*	Requesting publication of SIR prior to Examiner action	
1805 1,840*	1805 1,840*	Requesting publication of SIR after Examiner action	
1251 110	2251 55	Extension for reply within first month	
1252 420	2252 210	Extension for reply within second month	
1253 950	2253 475	Extension for reply within third month	
1254 1,480	2254 740	Extension for reply within fourth month	
1255 2,010	2255 1,005	Extension for reply within fifth month	
1401 330	2401 165	Notice of Appeal	
1402 330	2402 165	Filing a brief in support of an appeal	
1403 290	2403 145	Request for oral hearing	
1451 1,510	1451 1,510	Petition to institute a public use proceeding	
1452 110	2452 55	Petition to revive - unavoidable	
1453 1,330	2453 665	Petition to revive - unintentional	
1501 1,330	2501 665	Utility issue fee (or reissue)	
1502 480	2502 240	Design issue fee	
1503 640	2503 320	Plant issue fee	
1460 130	1460 130	Petitions to the Commissioner	
1807 50	1807 50	Processing fee under 37 CFR 1.17(q)	
1806 180	1806 180	Submission of Information Disclosure Stmt	
8021 40	8021 40	Recording each patent assignment per property (times number of properties)	
1809 770	2809 385	Filing a submission after final rejection (37 CFR 1.129(a))	
1810 770	2810 385	For each additional invention to be examined (37 CFR 1.129(b))	
1801 770	2801 385	Request for Continued Examination (RCE)	
1802 900	1802 900	Request for expedited examination of a design application	

Other fee (specify) _____

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$ 0.00)

(Complete if applicable)

Name (Print/Type)	Zhibin Ren	Registration No. (Attorney/Agent)	47,897	Telephone	414-277-5633
Signature				Date	May 14, 2004

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Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1

4

Complete if Known

Complete if Known	
Application Number	10/695,577
Filing Date	10/28/2003
First Named Inventor	Edwin R. Chapman
Art Unit	1645
Examiner Name	--
Attorney Docket Number	960296.99004

U. S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.¹ Applicant's unique citation designation number (optional).² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.4. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.⁶ Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449/PTO				Complete if Known	
				Application Number	10/695,577
				Filing Date	10/28/2003
				First Named Inventor	Edwin R. Chapman
				Art Unit	1645
				Examiner Name	--
Sheet	2	of	4	Attorney Docket Number	960296.99004

OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	1	J. BAI, et al. Membrane-embedded synaptotagmin penetrates cis or trans target membranes and clusters via a novel mechanism. J Biol Chem 275: 25427-35 (2000).	
	2	E.R. CHAPMAN. Synaptotagmin: a Ca(2+) sensor that triggers exocytosis? Nat Rev Mol Cell Biol 3: 498-508 (2002).	
	3	E.R. CHAPMAN, et al. A novel function for the second C2 domain of synaptotagmin. Ca2+-triggered dimerization. J Biol Chem 271:5844-49 (1996).	
	4	D. DEMEMES, et al. Efferent function of vestibular afferent endings? Similar localization of N-type calcium channels, synaptic vesicle and synaptic membrane-associated proteins. Neuroscience 98: 377-84 (2000).	
	5	M. FUKUDA, et al. Mechanism of the SDS-resistant synaptotagmin clustering mediated by the cysteine cluster at the interface between the transmembrane and spacer domains. J Biol Chem 276: 40319-25 (2001).	
	6	M. FUKUDA, et al. Synaptotagmin IX regulates Ca2+-dependent secretion in PC12 cells. J Biol Chem 277: 4601-04 (2002).	
	7	M. FUKUDA, et al. Distinct self-oligomerization activities of synaptotagmin family. Unique calcium-dependent oligomerization properties of synaptotagmin VII. J Biol Chem 275: 28180-85 (2000).	
	8	A. GUT, et al. Expression and localisation of synaptotagmin isoforms in endocrine β-cells: their function in insulin exocytosis. Journal of Cell Science 114(9): 1709-16 (2001)	
	9	P. JUZANS, et al. Synaptotagmin II immunoreactivity in normal and botulinum type-A treated mouse motor nerve terminals. Pflugers Arch 431: R283-84 (1996).	
	10	S. KOZAKI, et al. Ganglioside GT1b as a complementary receptor component for Clostridium botulinum neurotoxins. Microb Pathog 25: 91-99 (1998).	

Examiner Signature	Date Considered
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1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Application Number	10/695,577
Sheet	3	of	4	Filing Date	10/28/2003
				First Named Inventor	Edwin R. Chapman
				Art Unit	1645
				Examiner Name	-
				Attorney Docket Number	960296.99004

OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T ²
	11	J.L. LEWIS, et al. The transmembrane domain of syntaxin 1A is critical for cytoplasmic domain protein-protein interactions. J Biol Chem 276: 15458-65 (2001).		
	12	L. LI, et al. Isolation of synaptotagmin as a receptor for types A and E botulinum neurotoxin and analysis of their comparative binding using a new microtiter plate assay. J Nat Toxins 7: 215-26 (1998).		
	13	M. MATTEOLI, et al. Exo-endocytic recycling of synaptic vesicles in developing processes of cultured hippocampal neurons. J Cell Biol 117: 849-61 (1992).		
	14	T. NISHIKI, et al. Identification of protein receptor for Clostridium botulinum type B neurotoxin in rat brain synaptosomes. J Biol Chem 269: 10498-503 (1994).		
	15	T. NISHIKI, et al. The high-affinity binding of Clostridium botulinum type B neurotoxin to synaptotagmin II associated with gangliosides GT1b/GD1a. FEBS Lett 378: 253-57 (1996).		
	16	T. NISHIKI, et al. Binding of botulinum type B neurotoxin to Chinese hamster ovary cells transfected with rat synaptotagmin II cDNA. Neurosci Lett 208: 105-08 (1996).		
	17	S.L. OSBORNE, et al. Calcium-dependent oligomerization of synaptotagmins I and II. Synaptotagmins I and II are localized on the same synaptic vesicle and heterodimerize in the presence of calcium. J Biol Chem 274: 59-66 (1999).		
	18	M.S. PERIN, et al. Phospholipid binding by a synaptic vesicle protein homologous to the regulatory region of protein kinase C. Nature 345: 260-63 (1990).		
	19	G. SCHIAVO, et al. Tetanus and botulinum-B neurotoxins block neurotransmitter release by proteolytic cleavage of synaptobrevin. Nature 359: 832-35 (1992).		
	20	G. SCHIAVO, et al. Synaptotagmins: more isoforms than functions? Biochem Biophys Res Commun 248: 1-8 (1998).		

Examiner Signature	Date Considered
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Substitute for form 1449/PTO				Application Number 10/695,577
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Filing Date 10/28/2003
(Use as many sheets as necessary)				First Named Inventor Edwin R. Chapman
				Art Unit 1645
				Examiner Name --
Sheet	4	of	4	Attorney Docket Number 960296.99004

OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T ²
	21	C.T. WANG, et al. Synaptotagmin modulation of fusion pore kinetics in regulated exocytosis of dense-core vesicles. Science 294: 1111-15 (2001).		
	22	GenBank Accession No. P24506.		
	23	GenBank Accession No. P24505.		
	24	GenBank Accession No. P47191.		
	25	GenBank Accession No. NP_005630.		
	26	GenBank Accession No. X52772.		
	27	GenBank Accession No. D37793.		
	28	GenBank Accession No. D37792.		
	29	GenBank Accession No. M64488.		
	30	GenBank Accession No. Q8N9I0.		

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